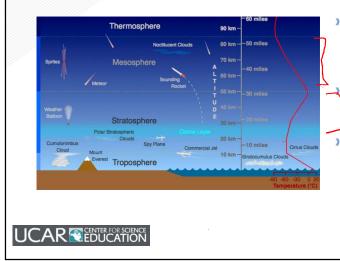


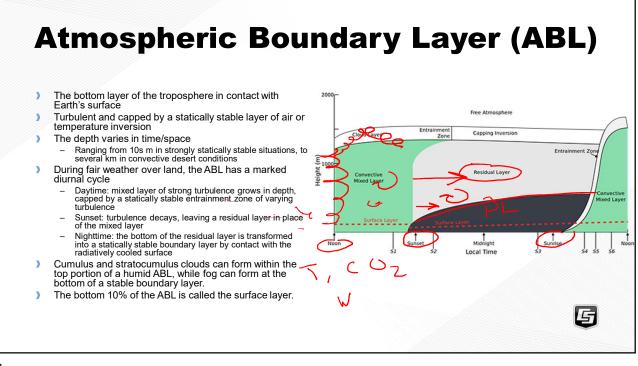
## **Layers of the Earth's Atmosphere**

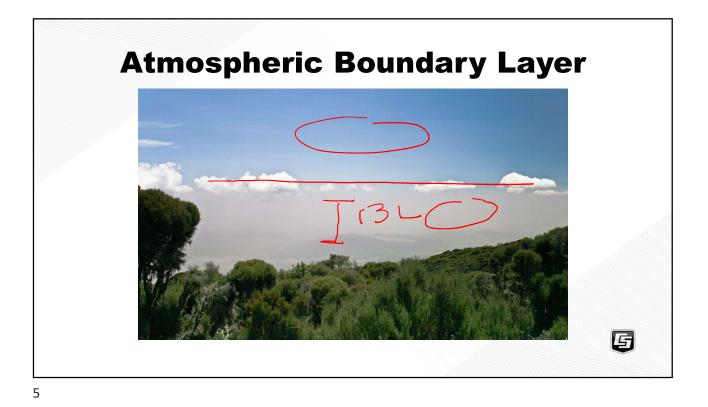


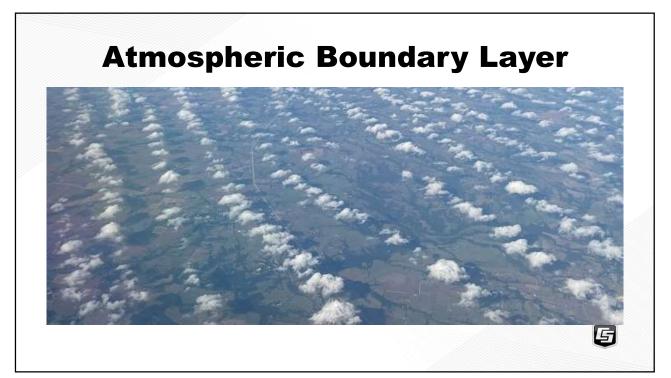
- Troposphere: Nearly all weather occurs here; 99% of the water vapor in the atmosphere is here; the boundary layer resides in this part of the atmosphere
- Stratosphere: Ozone layer; Ozone molecules in this layer absorb high-energy ultraviolet (UV) radiation from the Sun, converting the UV energy into heat; lacks the turbulence and updrafts of the troposphere; commercial passenger jets fly in the lower stratosphere; the jet stream flows near the border between the troposphere and the stratosphere

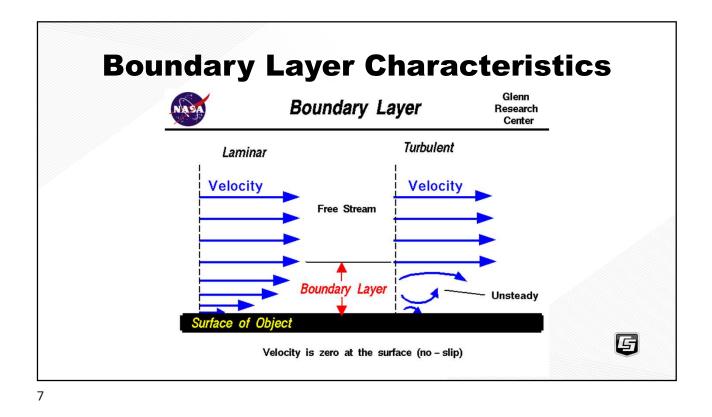
Mesosphere: Most meteors burn up here; the coldest temperatures in Earth's atmosphere, about -90° C (-130° F), are found near the top of this layer; air pressure at the bottom of the layer is well below 1% of the pressure at sea level

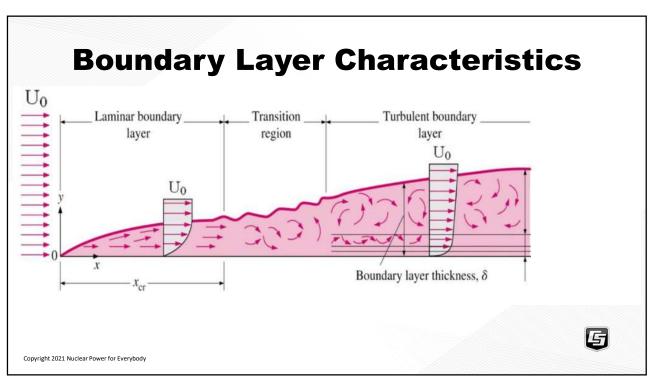
Thermosphere: Sun's high-energy X-rays and UV are absorbed raising temps between 500° C (932° F) to 2,000° C (3,632° F); the air in this layer is so thin that it would still feel freezing cold to us; satellites orbit Earth; Variations in the amount of energy coming from the Sun vary the height of the top layer between 500 and 1,000 km (311 to 621 miles) above the ground; the aurora, Northern/Southern Lights occur here

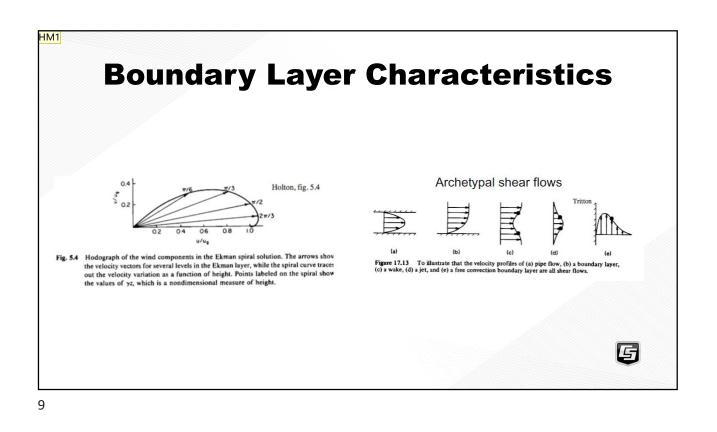


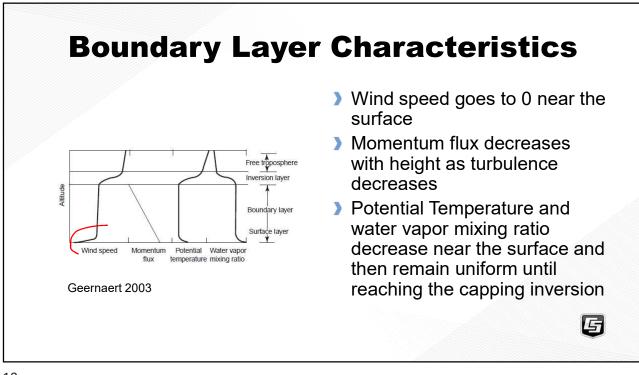




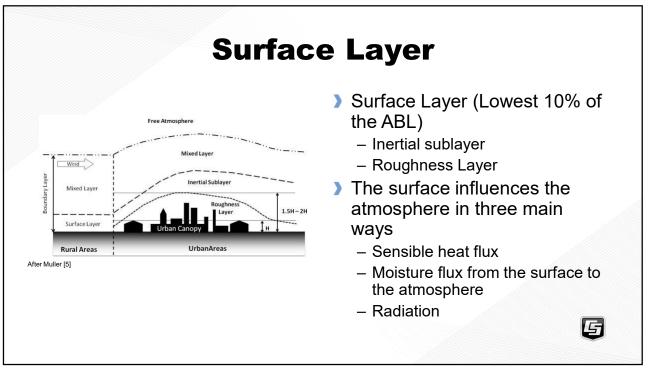




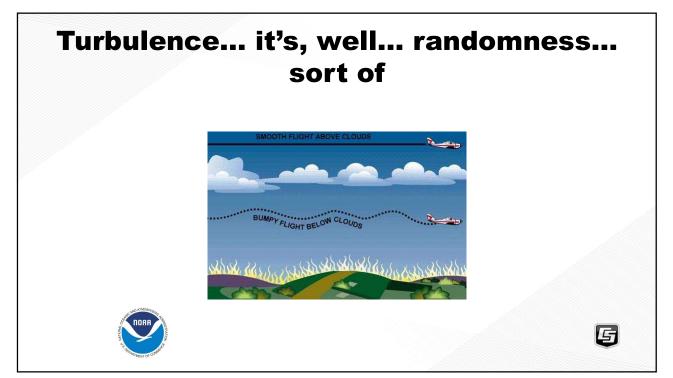


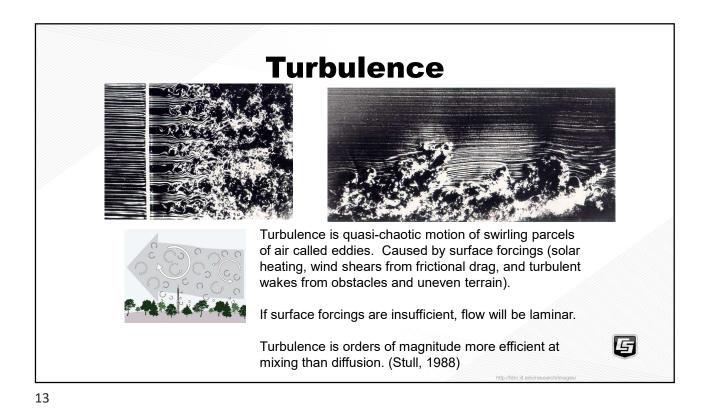


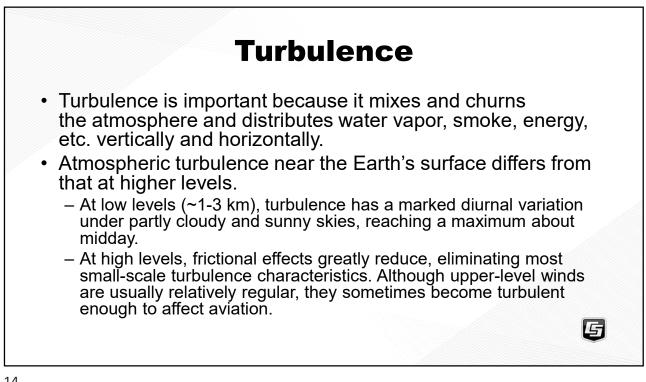
## HM1 Consider removing this slide Hayden Mahan, 8/18/2021

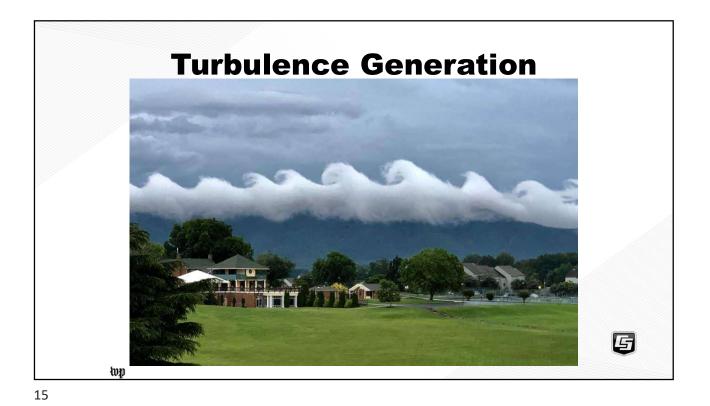


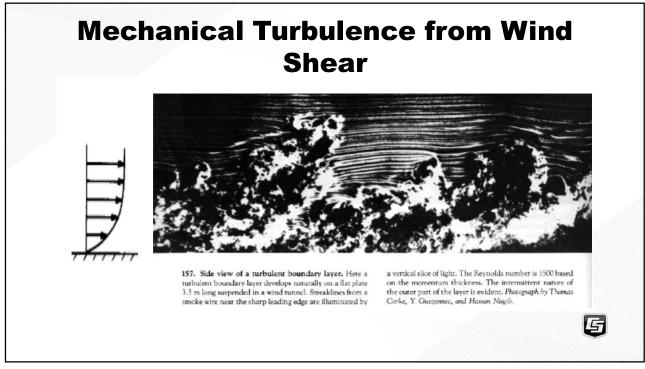


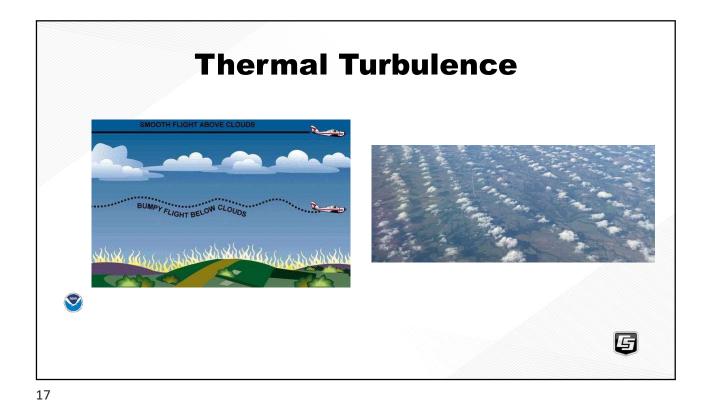


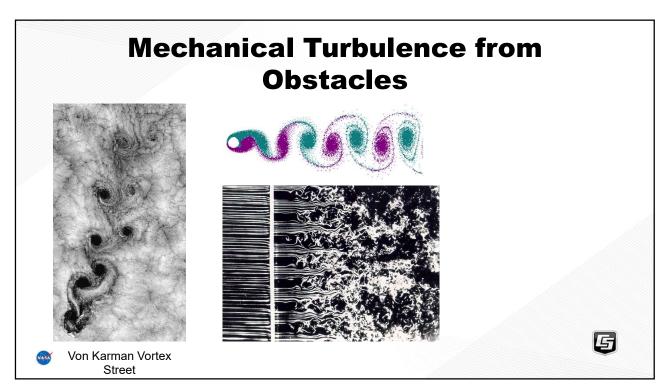


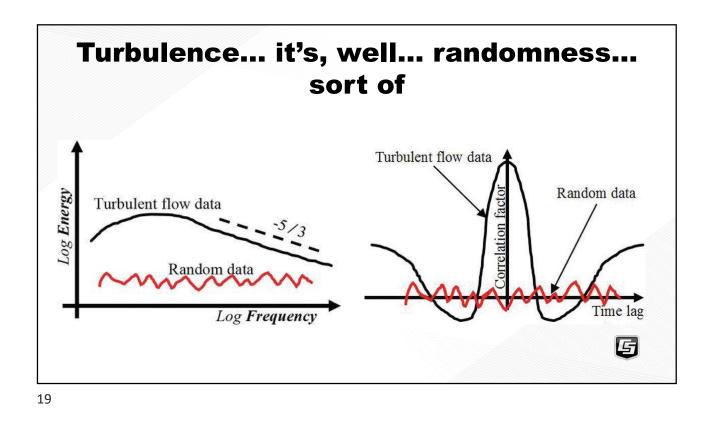


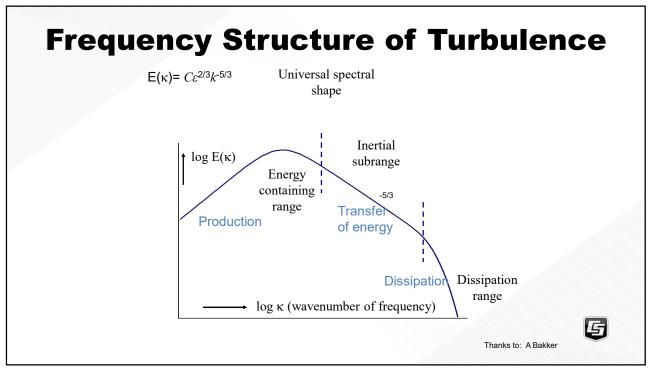




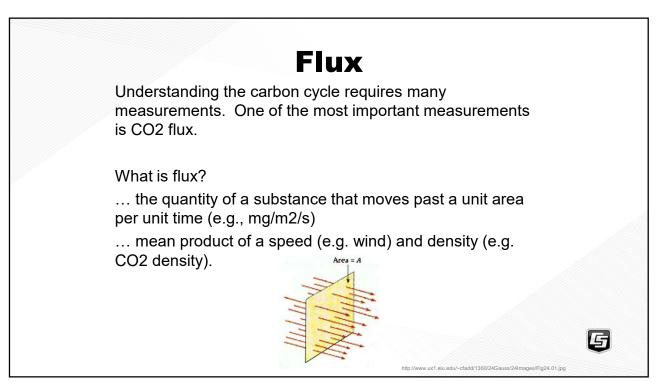


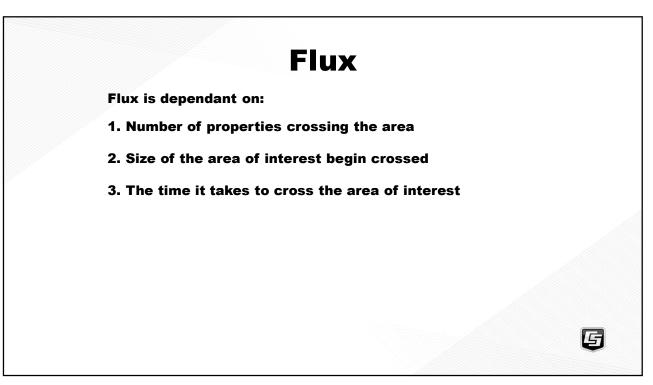




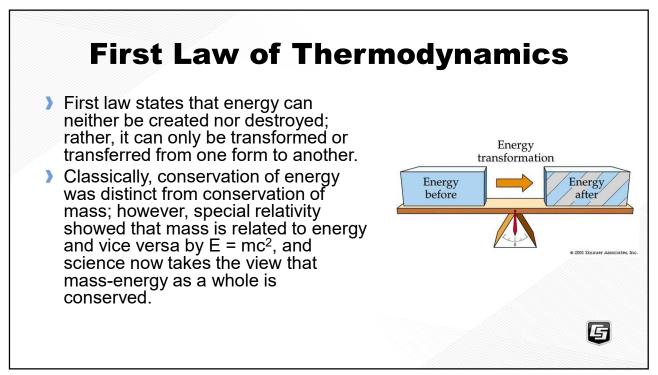


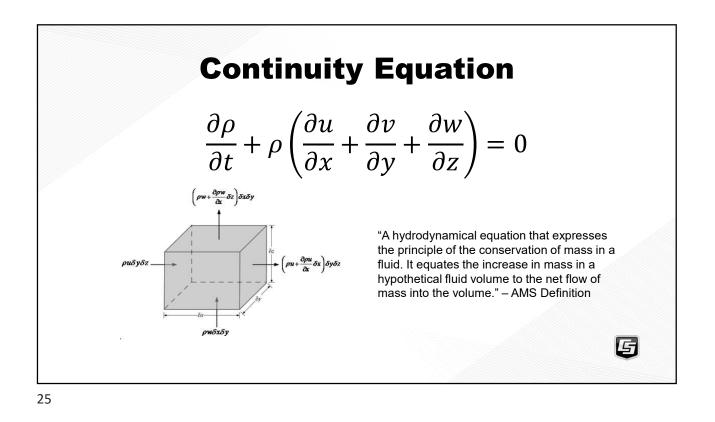
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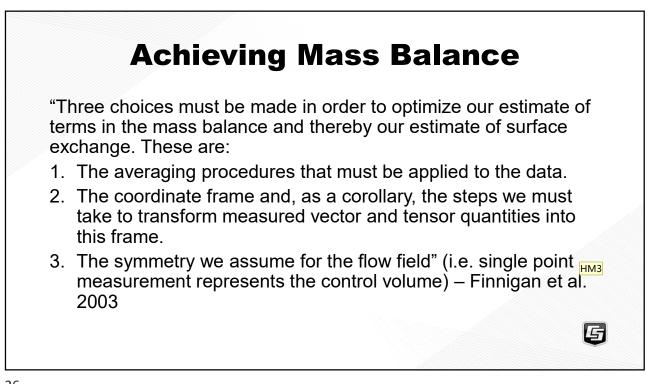












## HM3 Need to explain this better Hayden Mahan, 8/18/2021

